

Date: Thu, 7 Apr 94 01:37:44 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V94 #386
To: Info-Hams

Info-Hams Digest Thu, 7 Apr 94 Volume 94 : Issue 386

Today's Topics:

Amateur Forwarding Rules Ammended (2 msgs)
Any Amiga Hams out there??
Cell phones in the sky (was Re: Ham radios on planes - Defi...)
Conn. Commission: ARRL Discriminates Against Gays (2 msgs)
Free Access to the USGS 3 Arc Second Terrain Data is BACK!
FT-530 DC CONNECTOR
Hams should learn English
How phasing SSB Exciters Work (Was: RF and AF speech processors)
IPS Daily Report - 06 April 94
Operation of Ham radios on planes
Radio Shack DSP
RE : Hams should learn English
Time to lighten up.....
TM430, TM530 and TM-830 differences????

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 6 Apr 1994 22:13:11 GMT
From: news.mentorg.com!hpbab33.mentorg.com!wv.mentorg.com!hanko@uunet.uu.net
Subject: Amateur Forwarding Rules Ammended
To: info-hams@ucsd.edu

In article <2nr3qv\$t21@crn1s1.unl.edu>, mcduffie@unlinfo.unl.edu (Gary McDuffie
Sr) writes:

|> I still see no reason whatsoever for the first BBS to be held
|> accountable. It makes no sense at all. Why should anyone, other than

|> the originator, be held accountable for his actions? He wrote it, he
|> should take the lumps for it. If he uses someone else's call, track
|> him down, like any other mode.
|>
|> Gary

Makes sense to me ... but ... didn't make sense to the FCC I guess.

Perhaps part of the general philosophy of "I refuse to take responsibility
for my own actions, so you better figure out how to blame someone else."

Expect to see a BIG increase in the use of authentication keys on your
local packet BBS "real soon now".

... Hank

--

Hank Oredson @ Mentor Graphics
Internet : hank_oredson@mentorg.com
Amateur Radio: WORLI@WORLI.OR.USA.NOAM

Date: 6 Apr 1994 22:16:31 GMT
From: news.mentorg.com!hpbab33.mentorg.com!wv.mentorg.com!hanko@uunet.uu.net
Subject: Amateur Forwarding Rules Ammended
To: info-hams@ucsd.edu

In article <2nqgk6\$ehl@network.ucsd.edu>, brian@nothing.ucsd.edu (Brian Kantor)
writes:

|> In article <\$arlz05.1994@ampr.org> marchbg@netcom.com (Marc B. Grant) writes:
|> > Therefore, the Commission will hold accountable only the
|> > licensees of the station originating a message and the licensee
|> > of the first station forwarding a message in a high speed message
|> > forwarding system.
|>
|> So, folks, now that the Commission has recognized "high speed message
|> forwarding systems", how long do you think it will be before we HAVE
|> any such?
|>
|> - Brian

How many bps / hz does it require to be considered "high speed"?
We have some systems running at 1.5 to 3 now ...

If by high speed is meant "fast enough so it is not reasonable to expect
the control operator to hit the switch before it is too late." then we have

lots of them on air already.

Well ... at least we do here in the Pacific NW ...

... Hank

--

Hank Oredson @ Mentor Graphics
Internet : hank_oredson@mentorg.com
Amateur Radio: W0RLI@W0RLI.0R.USA.NOAM

Date: 7 Apr 1994 01:12:41 GMT
From: nwnexus!coho!maniac@uunet.uu.net
Subject: Any Amiga Hams out there??
To: info-hams@ucsd.edu

Well if your a ham that owns an amiga please send me mail, I'm compiling
a mailing list of Ham Amiga users... thanks in advance..

Date: Thu, 7 Apr 1994 03:53:15 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!csulb.edu!csus.edu!netcom.com!
linley@network.ucsd.edu
Subject: Cell phones in the sky (was Re: Ham radios on planes - Defi...)
To: info-hams@ucsd.edu

In ye olden post William=E.=Newkirk%Pubs%GenAv.Mlb@ns14.cca.CR.rockwell.COM
spake...

>>large RC plane. HI-HI. The airline also does not want you to use your
>>cellular telephone in flight. Why? So they can make big bucks on the
>>in-flight phone.

>
>it's more than that. the cell radio system doesn't like having users
>accessing more than 1 cell at a time (ideally). when you are up in the plane,
>you are able to hit hundreds at the same time. This gives the cell system a
>hernia since it's not set up for such a thing -- i would think the cell radio

Does this mean you shouldn't use a cell phone from moutain tops? :)

--

Bruce James Robert Linley ---- linley@netcom.com ---- Amateur radio: KE6EQZ

Date: 6 Apr 1994 22:29:35 GMT
From: ihnp4.ucsd.edu!swrinde!gatech!newsxfer.itd.umich.edu!news1.oakland.edu!
news.nd.edu!mac29@network.ucsd.edu
Subject: Conn. Commission: ARRL Discriminates Against Gays
To: info-hams@ucsd.edu

In article <2nv2jr\$58o@search01.news.aol.com>, jduffy@aol.com (JDuffy)
wrote:

>
> In article <204315Z05041994@anon.penet.fi>, an87806@anon.penet.fi writes:
>
> Too long to reprint, but the article said that the ARRL discriminates against
> gays.
>
> Well good for the ARRL! Ham radio is not about somebody's sexual orientation.
> It is about a radio hobby. I am getting sick and tired to the gays throwing
> their lifestyle in my face. I sure don't want them pushing their lifestyle
> into my hobby. I don't push my lifestyle into theirs.
>
> ARRL, thanks for standing up to the radicals! Keep up the fight!

Sorry, but I have to disagree with you on this one. Does a religious radio club, or a club for amateurs of any other special interest, undermine the nature of a "radio hobby"? Does it undercut the purpose of amateur radio if a club exists for, say, veterans? Is that pushing the military "in my face"? Is it pushing religion "in my face" to read an ad for a Jewish or Mormon Amateur Radio Club? Of course not. It seems perfectly reasonable to me that hams of similar interests or background would want to meet each other. No one was advocating the discussion of graphic sexual acts on the air. There has been no issue of bad taste about the LARC ad which has appeared in other publications. If you don't want people pushing their lifestyles onto others, then live and let live.

Date: Thu, 07 Apr 94 00:56:00 GMT
From: netcomsv!netcomsv!skyld!janguis@decwrl.dec.com
Subject: Conn. Commission: ARRL Discriminates Against Gays
To: info-hams@ucsd.edu

In article <2nv2jr\$58o@search01.news.aol.com> jduffy@aol.com writes:

>
> In article <204315Z05041994@anon.penet.fi>, an87806@anon.penet.fi writes:
>
> Too long to reprint, but the article said that the ARRL discriminates against
> gays.
>

> Well good for the ARRL! Ham radio is not about somebody's sexual orientation.
> It is about a radio hobby. I am getting sick and tired to the gays throwing
> their lifestyle in my face. I sure don't want them pushing their lifestyle
> into my hobby. I don't push my lifestyle into theirs.
>
> ARRL, thanks for standing up to the radicals! Keep up the fight!
>

You just did. How about just ignoring them. How hard can it be to skip
over a fucking ad buried on a page full of advertising?

QST is full of ads that I find annoying or useless. Henry Radio for example.
It takes no talent to shove the page over and continue reading the rest of
the article I was reading rather than have an apoplectic seizure over it.

73 es GE to the more reasonable types on the net.

Amateur: WA6FWI@WA6FWI.#SOCA.CA.USA.NOAM	"You have a flair for adding
Internet: jangus@skyld.grendel.com	a fanciful dimension to any
US Mail: PO Box 4425 Carson, CA 90749	story."
Phone: 1 (310) 324-6080	Peking Noodle Co.

Date: 7 Apr 94 02:36:31 GMT
From: dog.ee.lbl.gov!agate!howland.reston.ans.net!news.intercon.com!
news1.digex.net!not-for-mail@ucbvax.berkeley.edu
Subject: Free Access to the USGS 3 Arc Second Terrain Data is BACK!
To: info-hams@ucsd.edu

God, I don't know why, but I am offering free access for Amateurs
to my 3 arc second terrain data base again!

Here is the skinny:

TERRAIN_HAM 12/19/93 - This program performs terrain profile retrieval
and average terrain calculations using the Defense Mapping Agency/
U.S. Geological Survey 3 Arc Second Terrain Database.

Communications Data Services, Inc. ("CDS") has made this program
available to amateur radio enthusiasts at no charge. If you wish further
access to terrain data, we offer use of this program at very reasonable
rates. Please call us to set up an online account. If you use this
data in a publication, please give credit where credit is due.

CDS employees many hams working in the communications engineering industry, providing online services, Real World Propagation Studies, 3 arc second terrain data on CD-ROM, and FCC and FAA databases for PC. Our company is kind enough to offer this resource for the advancement of the science of communications. Please don't abuse this offer.

WE REQUEST THAT YOU DO NOT USE THIS DATA FOR COMMERCIAL PURPOSES!

Rich Biby, KD4DSX

Telnet (yes, I got telnet working!!! -- no more long distance charges!!) to online.comm-data.com. Login as "ham". It will ask for your name and call sign. Please -- keep it honest (and clean). Too many bumb comments and this servie will disapear.

The program now allows you to A) enter two points by latitude and longitude or B) enter a reference latitude and longitude and a distance and bearing for the second point.

I have not fully checked this "ham" version out, so it something seems strange, please ask.

I do have Canadian and Mexican terrain data, but by contract with each government I am not allowed to do some things with it. However, for our friends North and South of the boarder, if you got a project that gets my attention, I can run the profiles for you and give you the results.

Enjoy in good spirits. I hope this will help to advance the art of communications. I do have some other "kool" propagation and terrain averaging tools I will consider releasing for coordination jobs, repeater groups, and other reaserch/public interest projects. I have been flooded with requests in the past, and honestly, I got to be kind of pickey or I'll never get back to work. I want to write something for QST about this and let people know it is avilable -- so let me now the kinds of success/problems you have.

For anyone without net access, you can also dial in to 703-532-3744.

Good luck (I am a former nocoder and refuse to sign with '73s')

Happy Airwaves
Rich Biby,
KD4DSX "The Proud No Coder"

Rich Biby	Communications Data Services, Inc. rich@comm-data.com
KD4DSX	6105-E Arlington Blvd, Falls Church, VA 22044

we are the people | (703) 534-0034 FAX:(703) 534-7884 (800) 441-0034
people our parents | "I am not an idiot, but I play one on usenet!"
warned us about | Root Emergency Procedure: type "rm -rf / <cr>"

Date: 6 Apr 1994 19:05:04 -0700
From: ihnp4.ucsd.edu!usc!nic-nac.CSU.net!ctp.org!not-for-mail@network.ucsd.edu
Subject: FT-530 DC CONNECTOR
To: info-hams@ucsd.edu

According to the Yaesu manual:

The E-DC-5A connects the EXT DC Jack on top of the transeiver to a car lighter socket, to provide operating and battery charging voltage from the automobile electrical system or another DC source.

What is "another DC source" mean?? Can this adapter also be used for other sources??

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The E-DC-5A or another cable with a 3.5-mm coaxial plug that matches the EXT DC jack can be used to operate the transeiver from a source capable of providing 1.5 amperes at 5.5 to 16 VDC.

Will the FT-530 be OK if I use 16 VDC??

Will there be a power output increase with 16V?

Does anyone out there have an E-DC-5A adapter?

Steve Adams
sadams@ctp.org

Date: Wed, 6 Apr 1994 17:45:05 GMT
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!europa.eng.gtefsd.com!ulowell!
wang!dbushong@network.ucsd.edu
Subject: Hams should learn English
To: info-hams@ucsd.edu

Can someone help me out? Is this an April Fools joke or something?

gdavis@griffin.emba.uvm.edu (Gary Davis) writes:

>I've been listening to both 75 and 40 for some time and I'm amazed by
>the informal bad grammar that seems to be completely normal to the

```
>For example when he saw something last week, " Well I see it last time too"
>The word doesn't dosen't exit, " He don't need a new michrophone"
                ^^^^^^^^^^^^^^                ^^^^^^^^^^^^^^
```

```
>What ever happened when these people learned? English!
                                     ^^^^^^^^^^^^^^^^^^^^^^^
```

```
>Ofcourse, you can tell right away that these guys aren't too well
^
```

```
>educated. But, I'm still wondering how such poor English can be acquired
>when almost all broadcasting and newspapers does not indulge in such
                        ^^^^^^^^^^ ^^^^^
```

```
>flights of misuse.
```

```
>It is said that in the USA WE SPEAK ENGLISH... well, I've heard some
>JAs and many Eurpeans do better with English as a second and third
      ^^^^^^^^^^
```

```
>language as 60% of American hams can do with it as their first.
```

— —

Dave Bushong, Wang Laboratories, Inc.

Tom Bruhns wrote in part:

```
> As a simple feasibility check, I asked a curvefitter to fit to a couple
> linear phase ramps with constant amplitude, offset by 90 degrees, in the
> range from 300Hz to 3.5kHz, and it didn't have any trouble getting
> within a tenth dB and under a degree, with about 14 poles and 14 zeros
> for each. None of the poles was particularly high Q: max about 8.
```


Another interesting case is to start with a conventional elliptic function bandpass response, then proceed to the two networks with flat group delay and 90 degree phase difference, keeping the nice elliptic magnitude response. The finite jw-axis zeros may well wreak havoc -- with the number of poles and zeros (for the same overall tolerances on amplitude and phase errors as you have above) increasing significantly.

Wayne
KD0EA

nb: As you mentioned, nowadays the right way to go would be DSP.

Date: Wed, 6 Apr 1994 23:41:31 GMT
From: ihnp4.ucsd.edu!munnari.oz.au!newshost.anu.edu.au!sserve!usage!metro!ipso!
rwc@network.ucsd.edu
Subject: IPS Daily Report - 06 April 94
To: info-hams@ucsd.edu

SUBJ: IPS DAILY SOLAR AND GEOPHYSICAL REPORT
ISSUED AT 6/2330Z APRIL 1994 BY IPS RADIO AND SPACE SERVICES
FROM THE REGIONAL WARNING CENTRE (RWC), SYDNEY.
SUMMARY FOR 6 APRIL AND FORECAST UP TO 9 APRIL

IPS Warning 10 was issued on 31 MAR and is still current.

1A. SOLAR SUMMARY
Activity: very low

Flares: none.

Observed 10.7 cm flux/Equivalent Sunspot Number : 073/009

1B. SOLAR FORECAST

	07 April	08 April	09 April
Activity	Very low	Very low	Very low
Fadeouts	None expected	None expected	None expected

Forecast 10.7 cm flux/Equivalent Sunspot Number : 075/013

1C. SOLAR COMMENT
None.

2A. MAGNETIC SUMMARY

Geomagnetic field at Learmonth: unsettled til 06UT then active to minor storm levels were observed.

Estimated Indices :	A	K	Observed A Index	5 April
Learmonth	31	3345 5544		
Fredericksburg	33		24	
Planetary	40		31	

Observed Kp for 5 April: 4455 4435

2B. MAGNETIC FORECAST

DATE	Ap	CONDITIONS
07 Apr	35	Active to minor storm.
08 Apr	25	Active.
09 Apr	18	Unsettled to active.

2C. MAGNETIC COMMENT

None.

3A. GLOBAL HF PROPAGATION SUMMARY

	LATITUDE BAND		
DATE	LOW	MIDDLE	HIGH
06 Apr	normal	fair-normal	poor

PCA Event : None.

3B. GLOBAL HF PROPAGATION FORECAST

	LATITUDE BAND		
DATE	LOW	MIDDLE	HIGH
07 Apr	normal	fair-normal	poor
08 Apr	normal	fair-normal	poor
09 Apr	normal	fair-normal	poor

3C. GLOBAL HF PROPAGATION COMMENT

NONE.

4A. AUSTRALIAN REGION IONOSPHERIC SUMMARY

MUFs at Sydney were near predicted with 30-40% depressions at 00UT and 18-19UT.

Observed T index for 06 April: 25

Predicted Monthly T Index for April is 40.

4B. AUSTRALIAN REGION IONOSPHERIC FORECAST

DATE	T-index	MUFs
07 Apr	30	Near predicted monthly values.

08 Apr 35 Near predicted monthly values.
09 Apr 40 Near predicted monthly values.

4C. AUSTRALIAN REGION COMMENT

None.

--

IPS Regional Warning Centre, Sydney	IPS Radio and Space Services
email: rwc@ips.oz.au fax: +61 2 4148331	PO Box 5606
RWC Duty Forecaster tel: +61 2 4148329	West Chatswood NSW 2057
Recorded Message tel: +61 2 4148330	AUSTRALIA

Date: Thu, 7 Apr 1994 04:19:54 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!csulb.edu!csus.edu!netcom.com!
nlgak@network.ucsd.edu
Subject: Operation of Ham radios on planes
To: info-hams@ucsd.edu

I've lost the attribution here -- I think someone got it wrong...

In a previous article, some idiot (perhaps Julian, but I'm not sure) wrote:

:>
:> I of course have operated my walkie-talkie from commercial
:> aircraft. I have done this since 1974. I have even operated my 2M
:> walkie-talkie from the flight deck. I am still here, isn't that
:> amazing.
:>

And Bob Levine replies...

>
> Isn't there a way to FTP the FCC regs? Do it and grep
> for IFR.
Jesus -- if there is >ONE< book a ham should own, it's a bleeding copy
of Part 97 ... Call up your GPO & get it at a subsidised rate. or buy
the ARRL version with all their annotation for \$9 at your nearby HRO.

I recently quoted the appropriate FAA regulation, and here is the FCC
reference to it...

Begin Quote

97.11 Stations aboard ships or aircraft.

(a) The installation and operation of an amateur station
on a ship or aircraft must be approved by the master

of the ship or pilot in command of the aircraft.

- (b) The station must be separate from and independent of all other radio apparatus installed on the ship or aircraft, except a common antenna may be shared with a voluntary ship radio installation. The station's transmissions must not cause interference to any other apparatus installed on the ship or aircraft.
- (c) The station must not constitute a hazard to the safety of life or property. For a station aboard an aircraft, the apparatus shall not be operated while the aircraft is operating under Instrument Flight Rules, as defined by the FAA, unless the station has been found to comply with all applicable FAA rules.

End quoted text.

I'm impressed that someone has the superior intelligence to willfully violate both amateur regulations AND the FARs.

Date: Wed, 6 Apr 1994 12:56:08 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!europa.eng.gtefsd.com!
howland.reston.ans.net!math.ohio-state.edu!news.acns.nwu.edu!uicvm.uic.edu!
wheaton.wheaton.edu!tellab5!jwa@network.ucsd.edu
Subject: Radio Shack DSP
To: info-hams@ucsd.edu

Radio Shack is in the DSP race with their new DSP-40 noise reduction system.

It's a black box with a speaker, 12 volt and input chord. It has 2 three position switches and a volume control. One switch selects wide, medium and narrow. The other selects CW, SSB and NR.

The CW position selects narrow audio filters and allows a CW tone to pass. The other positions (SSB and NR) reject CW or heterodynes and provide a noise reduction filter. The other switch selects the filter bandwidths. The volume knob controls the audio level and there's a 5 watt internal amplifier/speaker.

The unit does a nice job nulling carriers but does very little noise cancelling. The narrow CW mode works fine but the I.F.

filter in my Kenwood 440 does a much better job. The unit makes a great mobile speaker for my H.T. and it runs on 12 volts but \$80.00 is a little steep for a mobile use. I purchased it so I can compare it to the Hamblaster which does a much better job reducing noise.

Inside is a PCB that's partially covered with a sheild. Under the bottom sheild there's a Texas Instruments chip with unknown markings. It's probably a custom chip with a TMS320C10 core. The top side probably has the A-D/D-A. I didn't look at the number.

Jack Albert WA9FVP	Fellow Radio Hacker
Tele (708) 378-6201	
Tellabs Operations, Inc.	FAX (708) 378-6721
1000 Remington Blvd.	jwa@tellabs.com
Bolingbrook, IL 60440	

Date: 6 Apr 94 15:47:14 CST
From: ihnp4.ucsd.edu!galaxy.ucr.edu!library.ucla.edu!europa.eng.gtefsd.com!emory!swrinde!cs.utexas.edu!gerald@cc.utexas.edu!utxvms.cc.utexas.edu!ifzf422@network.ucsd.edu
Subject: RE : Hams should learn English
To: info-hams@ucsd.edu

But, I'm still wondering how such poor English can be acquired when almost all broadcasting and newspapers does not indulge in such flights of misuse.

It is said that in the USA WE SPEAK ENGLISH... well, I've heard some JAs and many Europeans do better with English as a second and third language as 60% of American hams can do with it as their first.

I hope this is intended to be humorous, "newspapers does not indulge"? Shouldn't it be newspapers "don't" or even more appropriately "do not"?

....And, in the second paragraph above, I believe "Eurpeans" is probably meant to be "Europeans." --Perhaps you spoke to soon about proper English. Don't misunderstand, I agree with you, people definately could use some brushing up on the old rules. However, they are not going to listen seriously to people who are using bad grammar and making spelling errors themselves.

Just a thought or two,
John

Date: 5 Apr 94 14:16:02 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!europa.eng.gtefsd.com!darwin.sura.net!
nntp.msstate.edu!olivea!tardis!tymix.Tymnet.COM!niagara!flanagan@network.ucsd.edu
Subject: Time to lighten up.....
To: info-hams@ucsd.edu

In article <CnnMIO.FHB@news.Hawaii.Edu> jherman@uhunix3.uhcc.Hawaii.Edu (Jeffrey
Herman) writes:
>In article <765188612snx@skyld.grendel.com> jangus@skyld.grendel.com (Jeffrey D.
Angus) writes:
>>[...deleted...]
>This guy is just like herpes. No getting rid of him.

That comment seems to fit both of you.

>I might as well respond over the net, instead.

Oh, joy! Oh, rapture!

I think it's time to modify my KILL file to ignore everything posted by
either of you.

>Jeff (the good guy) NH6IL

Not any more.

Dick

--

Dick Flanagan, W6OLD
Libelle Productions, Minden, NV, USA
Voice: +1 702 782 0806

w6old@n6qmy.#nocal.ca.usa.na
dick@libelle.com
GEnie: FLANAGAN

Date: 6 Apr 94 19:07:01 GMT
From: agate!howland.reston.ans.net!gatech!asuvax!pitstop.mcd.mot.com!binford!
mcdphx!schbbs!news@ucbvax.berkeley.edu
Subject: TM430, TM530 and TM-830 differences????
To: info-hams@ucsd.edu

Can someone tell me what the feature differences are between the
above listed radios?

Thanks in advance.

Jim

End of Info-Hams Digest V94 #386
